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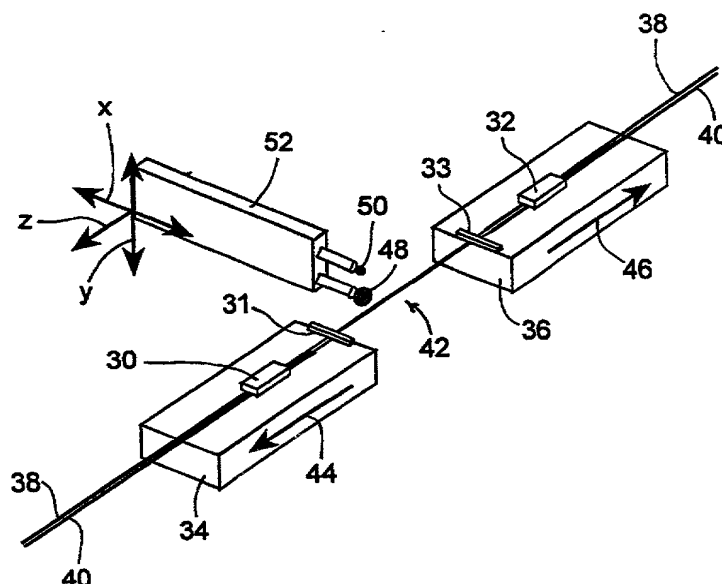
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(54) Title: FABRICATION OF MULTIPLEXING AND DEMULTIPLEXING SINGLE-MODE FIBER OPTIC COUPLERS



(57) Abstract: Multiplexing and demultiplexing single-mode fiber optic couplers are fabricated by aligning two single-mode fibers which have been stripped of their protective plastic jackets and cleaned so that they are held in parallel contact with each other, and then fusing these fibers to achieve a desired fusion profile and elongating the fused fibers to achieve a match point between the wavelength period and the polarization phase. The elongation process is interrupted and resumed as required to obtain a precise match point required to produce the desired multiplexing or demultiplexing coupler.

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WO 01/37013 A1